

Recovery Plan Action Status

Plan Name: Beach Mice (3 spp.)

Plan Status: Final

Plan Date: 12-Aug-87

Lead Agency: USFWS

Lead Office: Panama City Ecological Services Field Office

(4890)

769-0552)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Choctawhatchee beach mouse (Peromyscus polionotus altophrys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	1	1	Conduct life history and habitat studies. (All mice)	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, Florida Department of Natural Resources , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Research: General	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance	FWS lead for ABM & CBM studies; ISU contract for ABM research;FWC lead in research on SABM & species status survey methods
Choctawhatchee beach mouse (Peromyscus polionotus altophrys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	10	Develop cooperative programs to reestablish beach dunes	Ongoing Current	FY 1995 - FY 1999		Florida Game and Fresh Water Fish Commission, National Park Service, U.S. Fish and Wildlife Service National Wildlife Refuge System, U.S. Army Corps of Engineers, Alabama Department of Conservation and Natural Resources, Bureau Land Management , Florida Department of Natural Resources , United States Air Force , United States Coast Guard , Fish and Wildlife Enhancement	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	After Hurricane Opal FWS formed partnerships with federal and state land managers to restore dune habitats on coastal public lands. 2009 new project underway to enhance and accelerate dune /mouse habitat areas on Johnson Beach Unit of GUIS. Ongoing county HCP negotiations detail ways for permittees and stakeholders to improve, restore, and enhance bm habitat across the board.

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Alabama beach mouse (Peromyscus polionotus ammobates)	2	10.a	Develop cooperative programs to reestablish beach dunes(Al. beach mouse)	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service National Wildlife Refuge System, U.S. Army Corps of Engineers, Alabama Department of Conservation and Natural Resources, Bureau Land Management , Fish and Wildlife Enhancement, Phoenix	Work type not yet selected	Internal Field Assistance	Bon Secour NWR has implemented dune restoration, sec 7 consultations & ITPs require dune restoration
Choctawhatchee beach mouse (Peromyscus polionotus allophtys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	11	Plant vegetation to stabilize and reestablish beach dunes (All mice)	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, National Park Service, U.S. Fish and Wildlife Service National Wildlife Refuge System, U.S. Army Corps of Engineers, Alabama Department of Conservation and Natural Resources, Florida Department of Natural Resources , Fish and Wildlife Enhancement, Phoenix	Management: Habitat Maintenance and Manipulation	Contract, Internal Technical Assistance	FWS continues to fund a FDEP Greenhouse for growing dune plants for coastal public lands; After Hurricane Opal FWS formed partnerships with federal and state land managers to restore dune habitats on coastal public lands. Technical expertise sought from Dr. Debra Miller (UFL) on the structure, species and methods to most efficiently restore beach/dune habitats for the benefit of beach mice included in planting and restoration projects that are currently underway on GUIS (2009)

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Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	1	12	Maintain improved habitat areas (All mice)	Ongoing Current	FY 1995 - FY 1999		Florida Game and Fresh Water Fish Commission, National Park Service, U.S. Fish and Wildlife Service National Wildlife Refuge System, U.S. Army Corps of Engineers, Alabama Department of Conservation and Natural Resources, Florida Department of Natural Resources , Fish and Wildlife Enhancement, Phoenix	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	After Hurricane Opal partnerships were formed to restore the dune habitats on state & federal coastal public lands. FEMA relief funds, post storm replanting of washover and damaged dune areas, and some physical creation of berms occuring after storms of 2004 (Ivan), Dennis, and Katrina 2005.
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	13	Obtain easements	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Division of Realty, Fish and Wildlife Enhancement	Acquisition: Easement	Internal Administrative, Internal Technical Assistance	Easements are provided for in sec 7 consultations and ITPs
Alabama beach mouse (Peromyscus polionotus ammobates)	2	13.a	Obtain easements(Al. beach mouse)	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Division of Realty	Work type not yet selected	Labor type not yet selected	1998 Easements are provided for in sec 7 consultations and ITPs

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Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissylleipsis)	2	17	Monitor activities on privately owned lands (All mice)	Ongoing Current	Prior to FY 1995		Fish and Wildlife Enhancement	Research: Management Techniques, Research: Population Assessment, Research: Population Surveys	Internal Administrative, Internal Field Assistance, Internal Technical Assistance	Section 7 consultations & HCP/ITPs ongoing for ABM, PKBM, and CBM.HCPs on 5 properties for PKBM in FL; 2 HCPs for CBM-require monitoring of bm on property. The FWS continues to assist public land managers to conduct surveys. In 2008, FWC funded by the FWS completed a "LONG-TERM MONITORING OF BEACH MOUSE POPULATIONS IN (NW) FLORIDA" report.
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissylleipsis)	2	18	Conduct genetic studies	Ongoing Current	Prior to FY 1995		Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit, Phoenix	Research: Genetics	Graduate Student	Genetic research was conducted in the 1990s (Wooten 1994, 1999) on all subspecies. Current work completed by Van Zant Phd dissertation 2006 and and Hoekstra continues
Alabama beach mouse (Peromyscus polionotus ammobates)	2	18.a	Conduct genetic studies(Al. beach mouse)	Ongoing Current	Prior to FY 1995		Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Research: Taxonomic Studies	Species Expert	Genetic research was conducted in the 1990s (Wooten 1994, 1999) on all subspecies. Current work continues by Van Zant and Hoekstra)

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Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	1	19	Identify areas where populations need to be reestablished or supplemented	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, National Park Service, U.S. Fish and Wildlife Service National Wildlife Refuge System, U.S. Army Corps of Engineers, Alabama Department of Conservation and Natural Resources, Bureau Land Management , Florida Department of Natural Resources , United States Air Force , United States Coast Guard , Fish and Wildlife Enhancement	Management: Reintroduction	Internal Field Assistance, Internal Technical Assistance	FWS works with our state, federal & private partners to identify areas needed for BM reestablishment. In 2007, 5 year status reviews have identified some key areas for PKBM and CBM. Mainland of St Andrews State Park, Possibly Henderson Beach and Camp Helen, evaluation of Grayton Beach for possible supplementation work. (ongoing 2009)
Alabama beach mouse (Peromyscus polionotus ammobates)	1	19.a	Identify areas where populations need to be reestablished or supplemented (Al. beach mouse)	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service National Wildlife Refuge System, Alabama Department of Conservation and Natural Resources, Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit, Phoenix	Work type not yet selected	Internal Administrative	FWS has worked with the state of AL to reintroduce ABM to Gulf State Park in AL

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Choctawhatchee beach mouse (Peromyscus polionotus allopheys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	2	Reevaluate public use regulations	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, National Park Service, U.S. Fish and Wildlife Service, Law Enforcement Division, U.S. Fish and Wildlife Service National Wildlife Refuge System, U.S. Army Corps of Engineers, Alabama Department of Conservation and Natural Resources, Bureau Land Management , Florida Department of Natural Resources , United States Air Force , United States Coast Guard , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Other: Regulations	Contract, Internal Administrative, Internal Technical Assistance, Species Expert	Bon Secour NWR has the lead for AL. Our federal and state partners consult with us under the ESA to make sure any changes in their public use policies or operations do not jeopardize or adversely affect beach mice.
Alabama beach mouse (Peromyscus polionotus ammobates)	2	2.a	Reevaluate public use regulations(Al. beach mouse)	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service National Wildlife Refuge System, Alabama Department of Conservation and Natural Resources, Fish and Wildlife Enhancement, Phoenix	Work type not yet selected	Labor type not yet selected	Bon Secour NWR, Gulf S.P. and Fort Morgan S.P.

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Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	1	20	Determine population size and monitor trends	Ongoing Current	Prior to FY 1995		Fish and Wildlife Enhancement	Acquisition: Fee Title	Internal Field Assistance, Internal Technical Assistance	The FWS and its partners (NGOs, FWC) continue to conduct status surveys for BM subspecies. The FWC completed a final report in 2008 funded by the FWS "LONG-TERM MONITORING OF BEACH MOUSE POPULATIONS IN (NW)FLORIDA" that included the status of PKBM, CBM, and SABM.
Alabama beach mouse (Peromyscus polionotus ammobates)	1	20.a	Determine population size and monitor trends(Al. beach mouse)	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service National Wildlife Refuge System, Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Research: Demographic Studies	Internal Field Assistance, Internal Technical Assistance	2006 - FWS continues to conduct most of the monitoring (ES DAAL & BonSecour NWR). Some monitoring occurs on private lands because of ITP requirements.
Alabama beach mouse (Peromyscus polionotus ammobates)	2	21.a	Determine age, sex, and number to be removed from existing populations(Al. beach mouse)	Ongoing Current	Prior to FY 1995		Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Work type not yet selected	Labor type not yet selected	2006 - Since reintroductions of ABM have occurred in the early 2000s, the FWS and our partners prepare a translocation plan that specifies the number of mice that can be removed from a donor population to assure that population would be unaffected by the removal.
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	1	22	Determine which recovery action to follow	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, National Park Service, Florida Department of Natural Resources , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Management: General	Internal Technical Assistance	The FWS and our partners (States, NGOs, GINS, BonSecour NWR) continually review recovery actions and prioritize their implementation. They can change quickly or need to be redone when severe weather events like hurricanes occur.

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Alabama beach mouse (Peromyscus polionotus ammobates)	1	22.a	Determine which recovery action to follow(Al. beach mouse)	Ongoing Current	Prior to FY 1995		Fish and Wildlife Enhancement	Work type not yet selected	Labor type not yet selected	2006 - Priorities for recovery action completion is currently dictated by the Courts and the 2004 & 2005 hurricane seasons.
Choctawhatchee beach mouse (Peromyscus polionotus allophrys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	1	23	Translocate beach mice	Ongoing Current	Prior to FY 1995		National Park Service, U.S. Fish and Wildlife Service, Division of Realty, U.S. Fish and Wildlife Service National Wildlife Refuge System, Alabama Department of Conservation and Natural Resources, Bureau Land Management , Florida Department of Natural Resources , United States Air Force , United States Coast Guard , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Management: Reintroduction	Internal Technical Assistance	No translocations took place in 2007. There are multiple areas that need reintroduction or due to hurricanes affects require additional population translocations or supplementations
Alabama beach mouse (Peromyscus polionotus ammobates)	1	23.a	Translocate beach mice(Al. beach mouse)	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service National Wildlife Refuge System, Alabama Department of Conservation and Natural Resources	Management: Habitat Maintenance and Manipulation, Management: Reintroduction	Graduate Student, Internal Field Assistance, Volunteer	Translocations of ABM were made to Gulf State Park -AL from private lands in early 2000s. Re-introduction was successful but population lost following Hurricane Ivan in 2004. - ABM from public lands were translocated to GSP in early 2010. As of mid-2010, ABM had dispersed and occupied coastal dune habitats on ~1 mi of coastline on GSP south of Hwy 182.

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Choctawhatchee beach mouse (Peromyscus polionotus allophtys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissylleipsis)	2	24	Develop plans for captive breeding colonies	Ongoing Current	Prior to FY 1995		Fish and Wildlife Enhancement	Management: Propagation	Contract	2008-09 Contract with Zoologic to investigate the captive breeding of PKBM for reintroduction. Zoologic is preparing a plan for the captive breeding pilot project with the addition of captive breeding CBM to see if feasible to breed and reintroduce captive bred mice vs wild caught mice. In the early 1980s FWS contracted with the AL Research Coop Unit at Auburn University to captive breed ABM, PKBM, and CBM. Some captive breeding was successful other were not. Some mice were reintroduced back to the wild. However, due to the high cost of lab rearing and the difficulty of obtaining adequate numbers of wild mice and reintroduction back to the wild the program was discontinued in the early 1990s. In 2007 a captive breeding feasibility meeting was held. Assessment has been made that recovery actions should not focus on captive options.
Alabama beach mouse (Peromyscus polionotus ammobates)	2	24.a	Develop plans for captive breeding colonies(Al. beach mouse)	Ongoing Current	Prior to FY 1995		Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Work type not yet selected	Labor type not yet selected	2006 - The FWS DAAL office is currently investigating the feasibility of captive breeding ABM.

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Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	25	Evaluate possible captive breeding strategies (All mice)	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, National Park Service, Florida Department of Natural Resources , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit, Phoenix	Management: Propagation	Contract, Internal Technical Assistance, Species Expert	In 2007 a captive breeding feasibility meeting was held to discuss captive options.
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	26	Design facilities to maintain and breed beach mice (All mice)	Not Started			Florida Game and Fresh Water Fish Commission, National Park Service, Florida Department of Natural Resources , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit, Phoenix	Management: Propagation	Labor type not yet selected	In 2007 a captive breeding feasibility meeting was held. Assessment has been made that recovery actions should not focus on captive options.
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	27	Investigate shore-term breeding strategy potential (All mice)	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, National Park Service, Florida Department of Natural Resources , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit, Phoenix	Management: Propagation	Contract, Internal Field Assistance, Internal Technical Assistance	In 2007 a captive breeding feasibility meeting was held to discuss captive options.

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Choctawhatchee beach mouse (Peromyscus polionotus allophtys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	3	3	Enforce all regulations (All mice)	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, National Park Service, U.S. Fish and Wildlife Service, Law Enforcement Division, U.S. Fish and Wildlife Service National Wildlife Refuge System, U.S. Army Corps of Engineers, Alabama Department of Conservation and Natural Resources, Bureau Land Management , Florida Department of Natural Resources , United States Air Force , United States Coast Guard , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Other: Regulations	Internal Technical Assistance	Public land managers have the lead to enforce regulations on their lands. However, FWS works with public land managers to enforce regulations on public lands as needed.
Alabama beach mouse (Peromyscus polionotus ammobates)	3	3.a	Enforce all regulations (All mice)(Al. beach mouse)	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service National Wildlife Refuge System, Alabama Department of Conservation and Natural Resources, Fish and Wildlife Enhancement, Phoenix	Other: Regulations	Internal Administrative	Bon Secour NWR, Gulf S.P. and Fort Morgan S.P. have the lead as the public land managers. DAAL has lead in enforcing provisions of ITPs on private lands.

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Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	4	Maintain predator control programs	Ongoing Current	FY 2009		Animal Damage Control (USDA) , Fish and Wildlife Enhancement	Management: Predator and Competitor Control	Internal Administrative	FWS formed a state federal partnership in 1997 to contract with USDA-Wildlife Service to conduct predator control on coastal public lands. Program continues into 2008, although State of FL budget cuts may have an affect on program continuation of state lands. Service has received 2009 monies to continue the program.
Alabama beach mouse (Peromyscus polionotus ammobates)	2	4.a	Maintain predator control programs(Al. beach mouse)	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service National Wildlife Refuge System, Alabama Department of Conservation and Natural Resources, Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Management: Predator and Competitor Control	Contract, Internal Technical Assistance	Predator control conducted by USDA-Wildlife Services under contract since the 1990s.
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	5	Determine effect of house mice on beach mice (All mice)	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, Animal Damage Control (USDA) , Florida Department of Natural Resources , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Research: Competition	Labor type not yet selected	Research conducted in the 1980-1990s was completed. Additional research not identified.

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Choctawhatchee beach mouse (Peromyscus polionotus allopheys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	3	6	Develop cooperative agreements with other agencies	Ongoing Current	FY 2009		Florida Game and Fresh Water Fish Commission, National Park Service, U.S. Fish and Wildlife Service National Wildlife Refuge System, U.S. Army Corps of Engineers, Alabama Department of Conservation and Natural Resources, Animal Damage Control (USDA) , Bureau Land Management , Florida Department of Natural Resources , United States Air Force , United States Coast Guard , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Work type not yet selected	Labor type not yet selected	FWS working with FL Park Service on an MOU to reintroduce CBM into historic habitats 2009(St Andrew SP). In 2007 & 2008 the FWS provided the State of FL (FDEP) via FWC with an grant to prepare an HCP for their CCCL permitting program.
Alabama beach mouse (Peromyscus polionotus ammobates)	3	6.a	Develop cooperative agreements with other agencies(Al. beach mouse)	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service National Wildlife Refuge System, U.S. Army Corps of Engineers, Alabama Department of Conservation and Natural Resources, Bureau Land Management , Fish and Wildlife Enhancement, Phoenix	Work type not yet selected	Labor type not yet selected	FWS leases 350 ac. From AHC at Fort Morgan State Park for Management

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Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	7	Install boardwalks to protect habitat (All mice)	Ongoing Current	Prior to FY 1995	FY 2006	Florida Game and Fresh Water Fish Commission, U.S. Fish and Wildlife Service National Wildlife Refuge System, Alabama Department of Conservation and Natural Resources, Florida Department of Natural Resources , United States Air Force , Fish and Wildlife Enhancement, Phoenix	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	Public land managers in AL & FL have all implemented the concept of using and installing dune walkovers. Unfortunately following hurricanes they need replacement which can be costly. Some State parks in FL have opted to provided ongrade pedestrian paths instead of replacing boardwalks. The FWS review a pilot project in 2008 for the use of mobimats for pedestrian walkways.
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	8	Relocate access trails and parking lots to protect habitat	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, National Park Service, U.S. Fish and Wildlife Service National Wildlife Refuge System, U.S. Army Corps of Engineers, Alabama Department of Conservation and Natural Resources, Bureau Land Management , Florida Department of Natural Resources , United States Air Force , United States Coast Guard , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	FWS works with coastal public land managers when feasible to relocate structure out of bm habitats if destroyed in a hurricane or incorporate into new design plans

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Alabama beach mouse (Peromyscus polionotus ammobates)	2	8.a	Relocate access trails and parking lots to protect habitat (Al. beach mouse)	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service National Wildlife Refuge System, Alabama Department of Conservation and Natural Resources, Fish and Wildlife Enhancement, Phoenix	Work type not yet selected	Internal Administrative	2003 DAAL worked with GSP on an ITP to rebuild incorporating location of structures and facilities to minimize impacts to ABM habitats and Park rebuild after Hurricane Ivan in 2004
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	9	Install scavenger-proof trash receptacles and insure frequent pick-up (All mice)	Complete	Prior to FY 1995	FY 2006	U.S. Fish and Wildlife Service National Wildlife Refuge System, Alabama Department of Conservation and Natural Resources, Florida Department of Natural Resources , United States Air Force , Fish and Wildlife Enhancement, Phoenix	Management: Predator and Competitor Control	Internal Technical Assistance	All public lands have instituted the concept of installing predator proof trash receptacles. FWS continues to require install on private lands where applicable. 2009 ongoing recommendations whenever discussions with public landowners are appropriate to reinforce the need for predator proof trash receptacles.